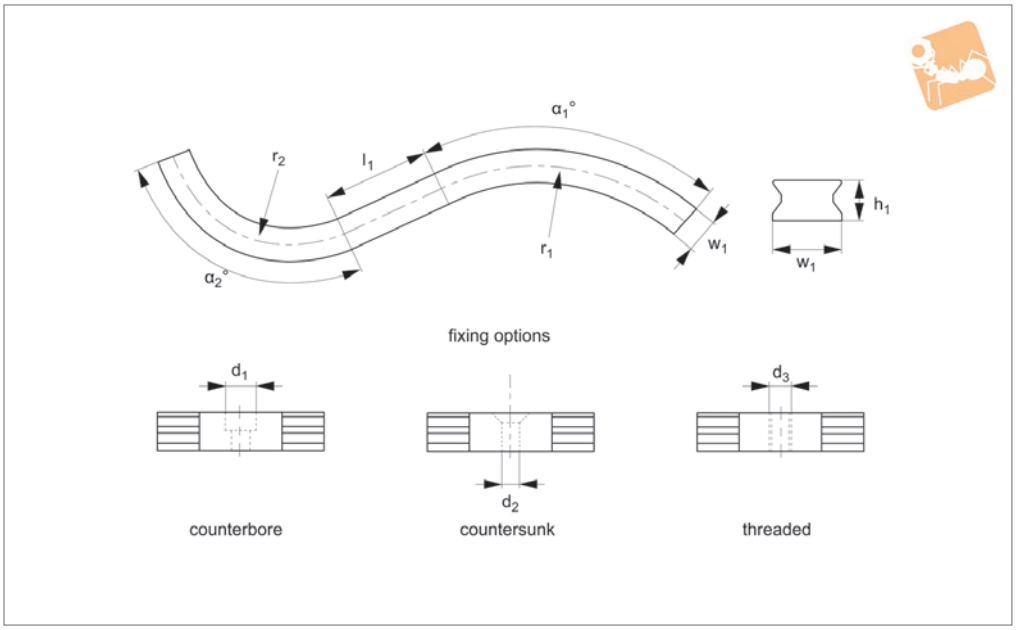


L1978.VRX23

Material
Steel rail (C43), electrolytic zinc plated.
All stainless steel on request.

Technical Notes
Advise angles required and fixing option type.
Temperature range -30°C to +80°C.

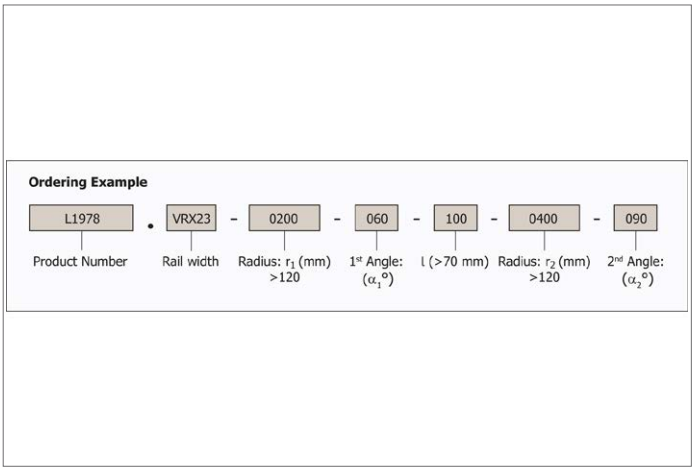
Rail weight 2,2 Kg/m.

Tips
Combine with curviline carriages L1978.CX23-100.
Recommended hole pitch on rail is 80mm.
Rail tolerance ± 0,5mm, angle tolerance ± 1°.

Recommended rail hole is counterbored (easy to install).

Important Notes
Not to be used in high-cycle applications.

Order No.	w_1	h_1	r_1 & r_2	α_1 & α_2 °	d_1 for	d_2 for	d_3 for	l_1
L1978.VRX23-xxx-xx	23	13.5	tba	tba	M6	M6	M8	tba



Curviline Rail

Introduction

The Curviline rail system offers a cost-effective solution to curvi-linear applications.

Flexibility when you need it

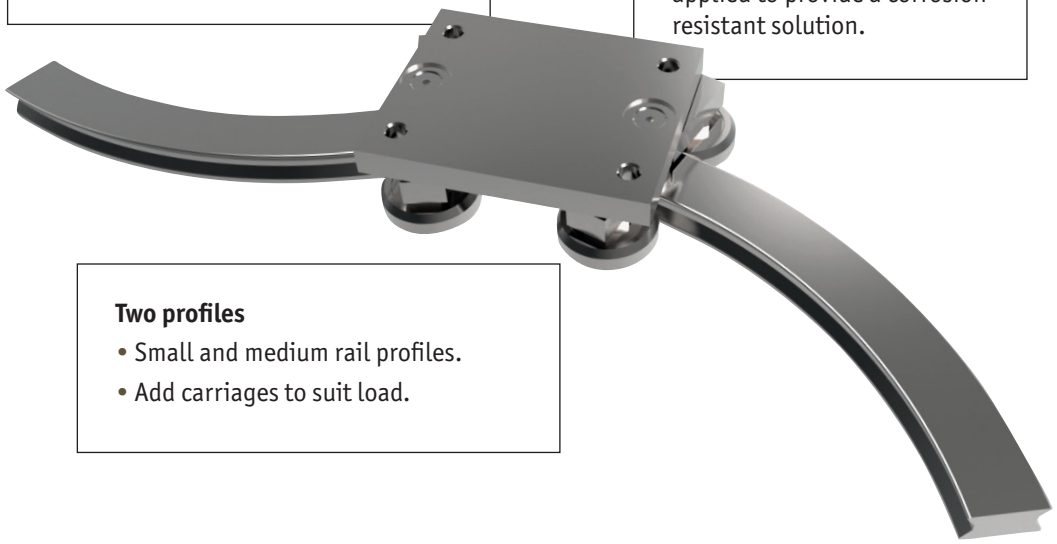
Constant radius, variable radius are available in standard radii, non-standard radii to your drawings are also possible. Straight and curved sections in a single length can be supplied.

Any radius

- From 120mm radius upwards.
- Standard and special radii.
- Angles up to 360°.

Anti-corrosion

Alloy coating or nickel plating of the rails and sliders can be applied to provide a corrosion resistant solution.

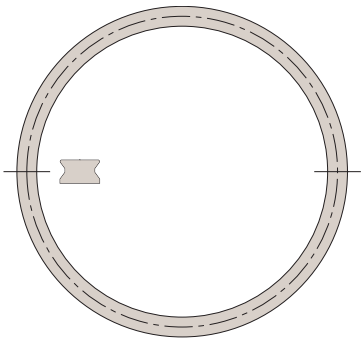


Two profiles

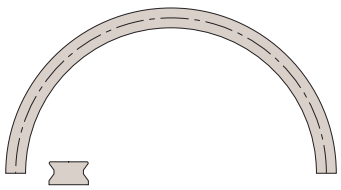
- Small and medium rail profiles.
- Add carriages to suit load.

Curviline Rail from Automotion Components

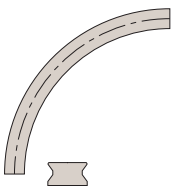
Examples



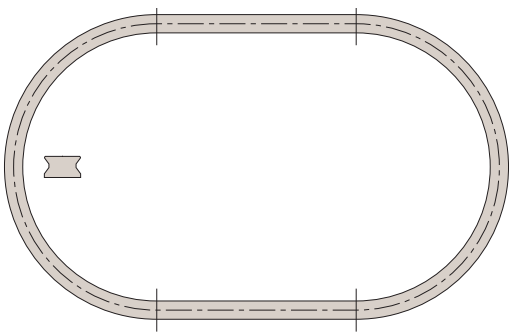
Circle



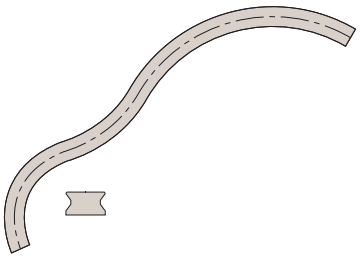
Semi-circle



Arcs



Ovals



Complex rails with varied radii and angles

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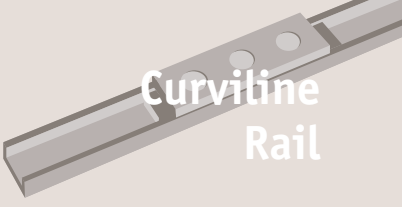


Specifications

- Maximum speed 1,5 m/s.
- Maximum acceleration 2 m/s².
- Maximum rail length 3600 mm.
- Two rail sizes 16,5 and 23,5 mm width.
- Minimum radius 120 mm.
- Recommended hole pitch 80 mm.
- Radius tolerance ± 0,5 mm (± 1°).
- Maximum radial load per slider 1615N.
- Temperature range -30°C to +80°C.
- Roller bearing seals 2Z (dust proof), lubricated for life.
- Rollers from 100Cr6, (stainless versions with rubber seals 2RS available on request).
- Sliders are preload adjustable.
- Not suitable for moment loads.
- Special coatings and finishes available on request.

Applications

Sliding doors & windows
Internal sliding doors
gates • roof lights
display cases

Special purpose & packaging machines
Precision positioning systems
handling units • robotic systems
cutting machines

Safety guarding
Extending protective systems
sliding gates
automatic pick & place

Transport (naval)
Sliding hatches
pull-out storage

Transport (automotive)
Ambulance sliding systems
fire fighting vehicles
sliding panels

Transport (rail)
Seat adjustment
sliding doors
battery removal units

Transport (military)
Sliding seats
protective hatches
stretcher extensions

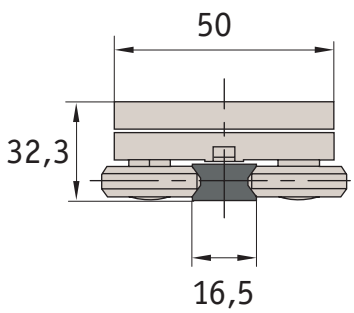
Curviline Rail from Automotion Components

Technical Information

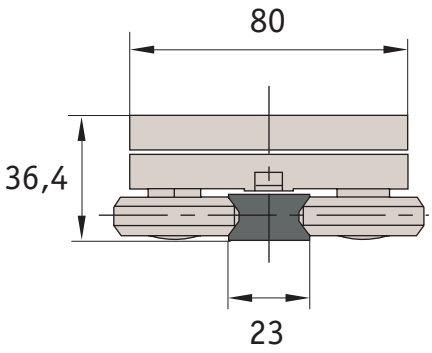
Rail sizes and types

Curviline Rail from Automotion Components

Rail sizes



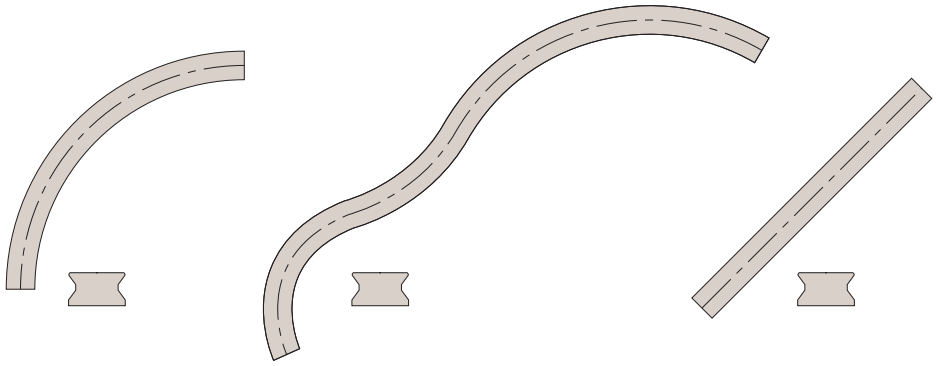
Size 16 (rail and slider)



Size 23 (rail and slider)

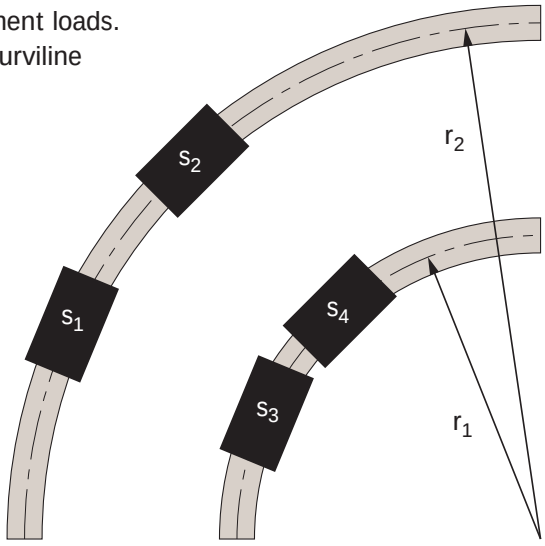
The sliders have eccentric rollers that are adjustable with the thin spanner that is supplied with them. This allows the preload of the system to be set as required – tight or free running.

Rail types



Constant radius | Variable radius rail | Straight sections

Using a pair of rails to reduce moment loads. s_1 - s_4 are Curviline Sliders.



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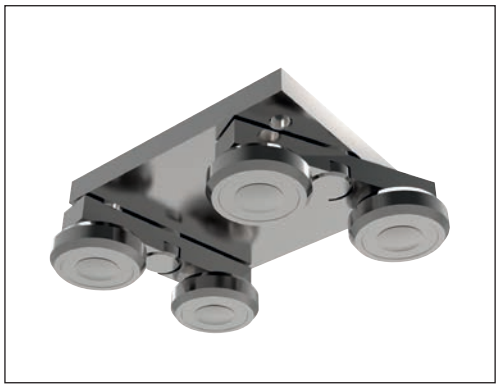
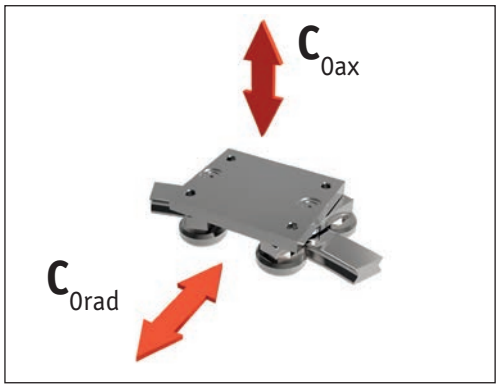
Load capacities

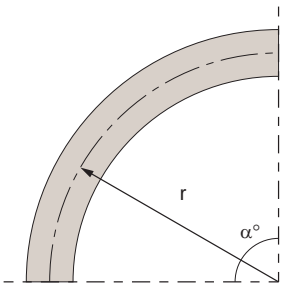




Slider type	C_{0ax} N	C_{0rad} N
L1978.CX16-070	390	560
L1978.CX23-100	1110	1600

Note: Reduce any moment loads by utilising two or more sliders and/or rails.

Constant radius

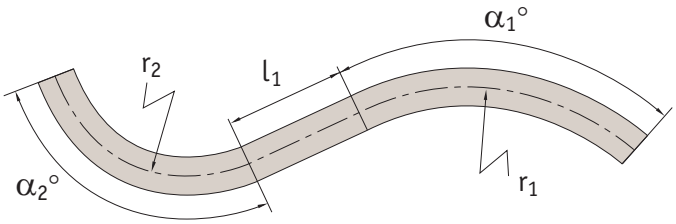


Ordering Example

L1978 . CRX16 – 0200 – 060 – X

L1978	CRX16	0200	060	X
Product Number	Rail width (16 or 23)	Radius: r (mm) 120 upwards	Angle: α° (0°-360°)	Fixing hole type: CB - Counterbored CS - Countersunk TR - Threaded

Variable radius



Ordering Example

L1978 . VRX16 – 0400 – 060 – 100 – 0200 – 090

L1978	VRX16	0400	060	100	0200	090
Product Number	Rail width (16 or 23)	1st Radius (mm) r_1>120	1st Angle: (α_1°)	l_1 (>70 mm)	2nd Radius (mm) r_2>120	2nd Angle: (α_2°)

Curviline Rail from Automotion Components